

Message Text

UNCLASSIFIED

PAGE 01 STATE 242677

12

ORIGIN IO-10

INFO OCT-01 EA-09 ISO-00 SP-02 AID-05 EB-07 NSC-05 CIEP-02

TRSE-00 SS-15 STR-04 OMB-01 CEA-01 CIAE-00 COME-00

FRB-01 INR-07 NSAE-00 USIA-15 XMB-04 OPIC-06 LAB-04

SIL-01 L-03 H-02 PA-02 PRS-01 NEA-10 EUR-12 /130 R

DRAFTED BY IO/CMD:BSTOKES:JPS

APPROVED BY IO/CMD:WWWOODBURY

----- 078847

R 102329Z OCT 75

FM SECSTATE WASHDC

TO AMEMBASSY BANGKOK

UNCLAS STATE 242677

E.O. 11652: N/A

TAGS: ESCAP, ENAG

SUBJECT: ESCAP NATURAL RESOURCES COMMITTEE MEETING:

AGENDA ITEM 7(A) (II)

1. THE FOLLOWING COMMENTS ARE SUBMITTED BY DR. ROSCOE F. WARD, ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION.

I. GENERAL COMMENT: THE BIO-GAS WORKSHOP CAN BE OF HELP TO THE COUNTRIES OF THE ESCAP REGION BY PROVIDING A MEANS OF TRANSFERRING KNOWLEDGE THAT CAN HAVE A FAVORABLE IMPACT ON THE LIVES OF THE PEOPLE IN THE RURAL AREAS.

2. FROM A TECHNICAL POINT OF VIEW, THE FOLLOWING COMMENTS ARE PROVIDED:

A. PAGE 23 - PARAGRAPH 79. MINIMUM DETENTION (RETENTION) SHOULD BE FIVE DAYS. IF A TIME PERIOD SHORTER THAN THIS IS USED, A WASHOUT OF THE ORGANISMS NECESSARY TO CARRY OUT THE

UNCLASSIFIED

PAGE 02 STATE 242677

BREAKDOWN OF THE SOLIDS WILL RESULT.

B. PAGE 25 - PARAGRAPH 83. THE FIRST SENTENCE SHOULD READ "IT IS KNOWN THAT CONTINUOUS OPERATION IS BETTER THAN THE BATCH PROCESS". THIS IS A KNOWN FACT.

-

C. PAGE 26 - FIGURE 2. IT IS QUESTIONED WHY THROUGHOUT THIS PAPER METRIC UNITS ARE NOT USED. MOST COUNTRIES ARE USING OR ARE IN THE PROCESS OF CHANGING TO THE METRIC SYSTEM. THE REPORT REFERS LATER ON TO ATTEMPTS TO STANDARDIZE DESIGNS. IF STANDARDIZED, METRIC MEASUREMENTS SHOULD BE USED. THE FIGURE SHOWN DOES NOT SHOW HOW THE WASTERS (LIQUID AND SOLID) GET FROM THE LEFT SIDE OF THE TANK TO THE RIGHT SIDE. SOMETHING IS MISSING FROM THE DRAWING.

D. PAGE 32 - TOP LINE. THE SCUM DOES NOT NEED TO BE REMOVED BUT CAN BE BROKEN UP OR STIRRED. WASTE WATER TREATMENT PLANTS IN THEIR DIGESTERS BREAK UP THE SCUM.

E. PAGE 33 - PARAGRAPH 107. SOMETHING MORE SHOULD BE ADDED TO THIS SECTION. SINCE SHORT DETENTION TIME AND LOW TEMPERATURE DO NOT KILL THE PATHOGENS, EITHER DETENTION TIME SHOULD BE INCREASED OR PREFERABLY THE TEMPERATURE OF THE DIGESTER SHOULD BE INCREASED. DIGESTERS HAVE TWO ADVANTAGES:

(1) THEY HELP TO TREAT WASTES AND STABILIZE THEM, AND
(2) THEY PRODUCE A BI-PRODUCT METHANE WHICH CAN BE USED FOR COOKING HEAT OR OTHER USES. THE MAIN PURPOSE IS THE TREATMENT OF THE WASTES AND THE REDUCTION OF HEALTH HAZARDS. GAS PRODUCTION IS SECONDARY.

F. PAGE 39, EXTENSION AND TRAINING. HOW CAN AUDIO-VISUAL LIBRARIES BE USED IN RURAL VILLAGES WHEN MANY OF THEM DO NOT HAVE ELECTRICITY?

G. PAGE 40 - WHAT DOES IT ACCOMPLISH TO OFFER SCHOLARSHIPS AND FELLOWSHIPS? WHERE ARE THEY TO BE USED? WHAT WOULD BE THE SOURCE OF FUNDS?

UNCLASSIFIED

UNCLASSIFIED

PAGE 03 STATE 242677

H. PAGE 41, ITEM D. WHY TRY TO INITIATE ACTION ON STANDARDIZATION OF TECHNICAL TERMINOLOGIES? THERE IS ALREADY FAIR AGREEMENT ON THIS. WHAT DOES THIS ACCOMPLISH? THE PARAMETER OF DESIGN HAVE BEEN WELL DEFINED BUT THE MINIMUM SPECIFICATIONS HAVE NOT BEEN SET OUT TO ASSIST PEOPLE BUILDING THE UNITS.

I. PAGE 41 - B.2.(A). REFERENCE IS MADE AGAIN TO FILMS AND AUDIO-VISUAL AIDS. SEE NOTE RE PAGE 39 ABOVE.

J. PAGE 42 - PARAGRAPH 3. PROMOTION OF PROJECTS AND RE-SEARCH STUDIES - IT IS ANTICIPATED THAT GREAT DIFFICULTIES WOULD BE ENCOUNTERED IN TRYING TO BUILD COMMUNITY-SIZED PLANTS WITHOUT SOME TYPE OF WATER CARRAGE SYSTEMS. MOST OF THE RURAL REGIONS DO NOT HAVE RUNNING WATER OR WASTE COLLECTION SYSTEMS. THIS SECTION MIGHT BE ELIMINATED. PROBLEMS OF COLLECTING DUNG CREATE MORE DIFFICULTIES. IN SOME PARTS OF THE REGION DUNG IS ALREADY COLLECTED AND USED AS FUEL. DIRECT DRYING AND BURNING OF DUNG MAY BE MORE EFFICIENT THAN THE DIGESTION. THE PAPER CONCEDES THAT IN THE DESIGN BASIS USED THERE IS INADEQUATE PRESSURE AVAILABLE TO DISTRIBUTE GAS FOR LONG DISTANCES. A COMMUNITY PLANT WOULD BE LIKE A SEWAGE TREATMENT PLANT WITH AN ANAEROBIC DIGESTER, THE EXCESS GAS BEING PIPED TO HOMES. IN OTHER REGIONS OF THE WORLD THERE HAS BEEN PLENTIFUL EXPERIENCE WITH THESE SYSTEMS.

K. PAGE 43 D. - PARAGRAPH 135, 1.(A). SEE THE FOREGOING PARAGRAPH.

L. PAGE 45, ANNEX 1, (A) AMBIENT TEMPERATURES: IN THE US AND WESTERN EUROPE ANAEROBIC DIGESTERS HAVE BEEN OPERATED AT 60 DEGREE C. AND HIGHER. CONSIDERABLE RESEARCH HAS BEEN CARRIED OUT ABOUT THE EFFECT OF TEMPERATURE ON DIGESTION TIME, GAS YIELDS, AND STABILIZATION OF WASTES. THE APPENDIX REFERS TO REFERENCES BUT NONE ARE LISTED. HOW CAN INTERESTED PERSONS WHO READ THIS PAPER AND WANT TO EXPLORE THE SUBJECT FURTHER DO SO WITHOUT THE COMPLETE LIST OF REFERENCES?

UNCLASSIFIED

UNCLASSIFIED

PAGE 04 STATE 242677

3. NATIONAL SCIENCE FOUNDATION AND ERDA HAVE BEEN SPONSOR-ING RESEARCH IN A ANAEROBIC DIGESTION OF SOLID WASTES, AGRICULTURAL WASTES AND OTHER MATERIALS AS A SOURCE OF ENERGY. PROJECTS INCLUDE AMONG OTHERS: 1. CORNELL UNIVERSITY (WILLIAM JEWELL) - AGRICULTURE WASTES; 2. USDA/HAMILTON STANDARD-FEEDLOT WASSTES AND AN EXPERIMENTAL FACILITY; 3. UNIVERSITY OF ILLINOIS (PFEFFER)-ANAEROBIC DIGESTION; 4. STANFORD UNIVERSITY (MCCARTY)-CELLULOSE TO METHANE.

4. DELEGATION MAY WISH TO SHARE THESE OBSERVATIONS WITH OTHER DELEGATIONS AND/OR ESCAP SECRETARIAT. KISSINGER

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NATURAL RESOURCES, COMMITTEE MEETINGS, MEETING REPORTS
Control Number: n/a
Copy: SINGLE
Draft Date: 10 OCT 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1975STATE242677
Document Source: CORE
Document Unique ID: 00
Drafter: BSTOKES:JPS
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D750354-0918
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19751064/aaaacfb.tel
Line Count: 165
Locator: TEXT ON-LINE, ON MICROFILM
Office: ORIGIN IO
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 4
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: buchant0
Review Comment: n/a
Review Content Flags:
Review Date: 03 NOV 2003
Review Event:
Review Exemptions: n/a
Review History: RELEASED <03 NOV 2003 by ThomasVJ>; APPROVED <02 FEB 2004 by buchant0>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
06 JUL 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: ESCAP NATURAL RESOURCES COMMITTEE MEETING: AGENDA ITEM 7(A) (II)
TAGS: ENRG, TH, ESCAP
To: BANGKOK
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 06 JUL 2006